

Tsitologiya 2014 vol.56 N6, pages 453-455

---

# Structure of amyloid-beta peptides in a complex-with model membranes

Usachev K., Filippov A., Klochkov V.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

## Abstract

Structures of amyloid-beta peptides A $\beta$ 1-40, A $\beta$ 10-35,  $\beta$ 13-23 and A $\beta$ 16-22 in a complex with model membranes in solution were obtained on the analysis of NMR experimental data. It has been established that the process of peptide-micelle complex formation occurs through the amino acid residues L17, F19, F20 and G29-M35.

---

## Keywords

Alzheimer disease, Beta-amyloid, NMR, SDS micelle